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HIGH QUALITY AND HIGH PERFORMANCE THREE-DIMENSIONAL GRAPHICS ARCHITECTURE FOR PORTABLE HANDHELD DEVICES

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ABSTRACT OF THE DISCLOSURE

A high quality and performance 3D graphics architecture suitable for portable handheld devices is provided. The 3D graphics architecture incorporates a module to classify polygons by size and other characteristics. In general, small and well-behaved triangles can be processed using "lower-precision" units with power efficient circuitry without any quality and performance sacrifice (e.g., realism, resolution, etc.). By classifying the primitives and selecting the more power-efficient processing unit to process the primitive, power consumption can be reduced without quality and performance sacrifice.